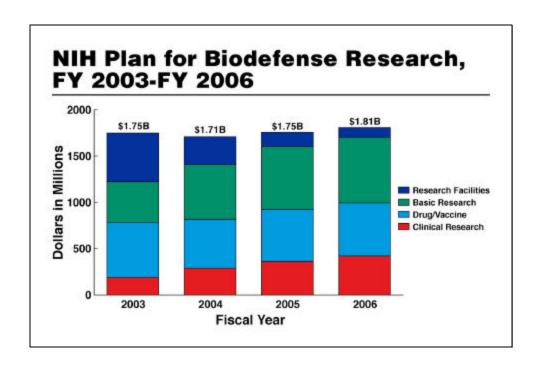


Research Facilities Construction Build BSL-3 and BSL-4 labs (including at the comprehensive research centers)	\$521.1M
Basic Research on Agents of Bioterrorism Support research programs in at least 4 comprehensive extramural centers in FY03 Conduct genomic sequencing and proteomic analysis on up to 25 pathogens Expand training programs	440.6M
Drug/Vaccine/Diagnostics Discovery and Development Test and develop candidates for next-generation anthrax vaccine Engage industry through challenge grants Establish repositories for diagnostic and drug reagents Develop animal models, establish high-containment facilities and services	591.9M
Clinical Research Expand clinical trials infrastructure (VTEUs) Conduct smallpox, anthrax, and ebola clinical trials	194.3M
Total	\$1,747.9M



Planning for Biodefense Research

- NIAID Strategic Plan for Biodefense Research
- NIAID Biodefense Research Agenda
- NIAID Blue Ribbon Panel on Biodefense and its Implications for Medical Research, Feb. 4-5, 2002

Bioterrorism: Characteristics of CDC Category A Agents

- Can be easily disseminated or transmitted from person to person
- Cause high mortality, and have the potential for major public health impact
- Might cause public panic and social disruption
- Require special action for public health preparedness

Source: CDC

Bioterrorism: Category A Agents

Biological Agent(s)	Disease
Variola major	Smallpox
Bacillus anthracis	Anthrax
Yersinia pestis	Plague
Clostridium botulinum (botulinum toxins)	Botulism
Francisella tularensis	Tularemia
Filoviruses and Arenaviruses (e.g., Ebola virus, Lassa virus)	Viral hemorrhagic fevers

Source: CDC

Bioterrorism: Category B and C Agents

Biological Agent(s)

Disease

Category B

Coxiella burnetii
Brucella spp.
Burkholderia mallei
Burkholderia pseudomallei
Alphaviruses (VEE, EEE, WEE)
Rickettsia prowazekii
Toxins (e.g. Ricin, Staph. enterotoxin B)
Chlamydia psittaci

Q fever Brucellosis Glanders Melioidosis Encephalitis Typhus fever Toxic syndromes Psittacosis

Food safety threats (e.g. Salmonella spp., E. coli O157:H7)

Water safety threats (e.g. Vibrio cholerae, Cryptosporidium parvum)

Category C

Emerging threat agents (e.g. Nipah virus, hantavirus)

Source: Rotz et al., Emerg Infect Dis, 2/2002

